WHAT IS CLAIMED IS:

1	1. A hair-removal method comprising:
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2	determining the diameter typical of the hair to be removed from a patient;
3	selecting a laser-pulse duration for a hair removal device according to this
4	diameter of the hair so that smaller diameter hair results in a shorter laser-pulse duration
5	than larger diameter hair; and
6	applying laser energy through a window of the hair removal device of the
7	selected laser-pulse duration to a patient's skin to cause thermal injury to hair tissue.
1	2. The method according to claim 1 further comprising the step of
2	selecting a chosen one of a laser-pulse amplitude and a laser-pulse fluence prior to the
3	applying step.
1	3. The method according to claim 1 wherein the laser energy applying
2	step is carried out by:
3	positioning a cooling element of the hair removal device against a first
4	target area on the patient's skin;
5	moving, after a chosen cooling period of time, the cooling element from
6	the first target area to a second target area with the window overlying and spaced-apart
7	from the first target area;
8	applying the laser energy to the first target area through the window with
9	the window overlying and spaced-apart from the first target area.
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1	4. The method according to claim 3 further comprising moving, after
2	the laser energy applying step, the window to overlay the second target area while
3	positioning a second cooling surface against the first target area.
1	5. The method according to claim 3 wherein the moving step is
2	carried out with the chosen cooling period of time being about 0.25 to two seconds.
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1	6. The method according to claim 3 further comprising the step of
2	selecting a hair removal device using laser energy in the 800 to 1200nm average length
3	range.

1	7. The method according to claim 1 further comprising the step of
2	selecting a hair removal device using laser energy having a wavelength of about 1.06
3	microns.
1	8. The method according to claim 1 wherein the selecting step is
2	carried out so that hair diameters from about 25 to 150 micrometers result in laser-pulse
3	durations of about 5 to 50 milliseconds.
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1	9. A method for preparing to apply hair tissue-damaging radiation to a
2	target site on a patient's skin comprising:
3	accessing a hair removal device having a skin cooling surface and a
4	radiation source with a window through which hair tissue-damaging radiation passes, the
5	skin cooling surface and the window aligned along a direction of motion;
6	selecting a chosen one of:
7	(i) a first chosen time interval (C) for cooling the target site; and
8	(ii) a second chosen time interval (Z) between applications of hair
9	tissue-damaging radiation; and
10	determining the other of the first and second time intervals based on the
11	following:
12	$Y=(X \cdot C)/Z$, where
13	X and Y are the respective lengths of the cooling surface and the
14	window measured in the direction of motion.
1	10. The method according to claim 9 further comprising applying laser
2	energy through a beam size-defining lens system to control the lateral size of the radiation
3	beam passing through the window.